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ABSTRACT

Among the freshmen who entered the City University of New York (CUNY) in fall 1970, about 63% were enrolled without interruption in each of their initial four semesters. Approximately 70% of them were enrolled in CUNY during spring 1972, the fourth semester since their original enrollment. At the senior college, more than 75% were in attendance during the fourth semester; this was true for 60% of the students from the community colleges. At both, high school average was positively associated with retention. Among students who left college, about 18% returned and were present for the fourth semester. While attrited students from community colleges were more likely to return than those from senior colleges, the differences were quite small. With regard to net retention rates, there was considerable variation among the colleges of CUNY. There was even more variation in the rates of return of attrited students. When the CUNY net retention data over four semesters are compared with national data over eight semesters, it is apparent that considerably more attrition will have to occur before the CUNY net retention rate approaches the threshold defined by the national data. (Author)

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STUDENT RETENTION UNDER OPEN ADMISSIONS AT THE CITY UNIVERSITY OF NEW YORK: SEPTEMBER 1970 ENROLLEES FOLLOWED THROUGH FOUR SEMESTERS

by

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INTRODUCTION

In the fall of 1970, the City University of New York (CUNY) initiated a policy of open admissions, whereby all graduates of New York City high schools were guaranteed admission. An important goal of the open admissions program is to avoid the low retention rates which have characterized open admissions models in other places. For this reason retention data are of great interest and significance, both within the University and for the public.[1] Indeed, the question of retention has generated considerable controversy. Some of the issues may be clarified by data we shall present.

This report has two aims. First, it presents data concerning the phenomena of retention, (including return from temporary leave). Second, it considers the CUNY data in a national context, thus adding perspective for the local setting.

Discussions of college attrition use the concept in different ways. The broadest definition would concern students who are no longer matriculated at the college at which they initially registered. While such a definition is used in some studies, it is simplistic, since it overlooks a number of phenomena: the students may have transferred to another CUNY college or are attending on another basis and are, therefore, still retained by the University, students may have dropped out of CUNY at one time and may reenter later. Thus, a college's retention rate is, to some extent, a function of the definition.

A very important aspect of retention at CUNY concerns those students who leave, later to return to college. In a study of CUNY students completed in 1968, Max (3) found that less than half graduated within four years.

However, over 70% graduated within seven years -- a figure considerably higher than at other large universities. This suggests that a substantial number of CUNY students exhibit a pattern of leave and return. Although open admissions has not been in effect long enough to assess the presence of the pattern over a seven year period, data presented by Lavin and Jacobson (2) showed that, among the 1970 freshmen, about a third of those who left after their first semester had returned for the third. For this class, we can now present additional data covering the first four semesters of open admissions.

PROCEDURES

Official CUNY retention data provided periodically by registrars on each campus are subject to certain limitations. First, students who transfer from their original college to another CUNY unit or to a college out of the CUNY system are not counted as retained. Second, students who leave and then return to another college (both inside and outside of CUNY) are not counted as retained. Third, students who transfer from the day session to the evening session at a given college are also not counted as retained. Fourth, students who leave and then return to their initial college should be included among the retained but this may not have occurred for all cases and on all campuses. A consequence of these limitations is that the registrars' data underestimate the retention rates.

The data presented in this report are not subject to all of the above limitations, and thus, may provide a more refined assessment of the phenomena of retention. Students who transfer from their original college to another CUNY college are listed as retained. Moreover, students who leave and

return to their original college or to another college within the CUNY system are also included among the retained. (For purposes of this report, they have been counted as retained at the college of original enrollment.)

However, the data do have certain limitations which should be noted. First, although we are able to track students who migrate from one college to another within CUNY, we cannot do this for students who transfer to colleges outside the University. Second, students who transfer from the day session to the evening session at a college are not counted as retained. Third, there are three colleges for which the data are not yet complete enough to permit application of our computerized tracking system. However for these campuses we do have the unrefined registrar data; in response to requests, we have made "refined estimates" in these three cases.[2]

In short, though CUNY has made improvements in its data collection system -- and will continue to do so -- our data still tend to underestimate retention rates. Nevertheless, the underestimates are not as great as those contained in the registrars' data.

DEFINITIONS

The data are summarized in terms of the following variables: retention rate, net retention rate, and fourth semester return rate. The retention rate is simply the proportion of the original cohort of freshmen who entered in Fall, 1970, who registered for all of the first four semesters at any college in CUNY. The net retention rate is defined by those students who are present for all four semesters, plus those students who left, returned,

and were present in CUNY for the fourth semester, regardless of whether or not they returned to the college at which they originally matriculated.[3] The fourth semester return rate is the proportion of attrited students who returned and were present at any CUNY college in the fourth semester.

Our data on retention, net retention, and return are considered in the following manner: First, we present findings for CUNY as a whole. Second, we report aggregate findings for the senior colleges and for community colleges. Third, we present data for individual colleges. These findings are described with reference to high school average (really college admissions average or CAA)[4] categories. The following chart indicates the names and definitions of the high school average categories:

High School Average (CAA)	Senior College Label	Community College Label
Less than 70.0%	Level B	Level B
70.0 - 74.9%	Level A.1	Level A
75.0 - 79.9%	Level A.2	Regular 1
80.0% or Above	Regular	Regular 2

At senior colleges open admissions students are in the Level B, Level A.1, and Level A.2 categories. At community colleges the open admissions students are in the Level B and Level A categories. These definitions allow one to compare senior college and community college students at all levels of high school average. We also present data on students for whom no information on high school average was available. This group consists of those who attained high school equivalency diplomas, students from outside of New York City, and others for whom the data were missing.

In the analyses to follow, data presented cover all freshmen who entered in Fall, 1970. This includes special program students (e.g., SEEK, College Discovery, and other special programs).

RETENTION

Data on retention and net retention rates are presented in Table 1. The overall CUNY data show that, of the students who matriculated in the Fall of 1970, 62.9% were present for all four semesters. As has been demonstrated in almost all other studies of student retention, there was a substantial difference between the senior and community colleges: 71.4% of the students at the former and 51.4% at the latter were present for their first four semesters. When we consider the students who were in attendance without interruption, as well as the students who left, returned, and were present in the fourth semester (the net retention rate), we see that the proportion of the original cohort still in attendance was considerably larger. Whereas the retention rate for the university as a whole was 62.9%, the net retention rate was 69.5%. This net rate was higher for the senior colleges (76%) than for the community colleges (60.5%). However, at the latter the difference between the retention and net retention rates was greater.

Among the senior colleges, the schools with the highest net retention rate were Brooklyn College and Queens College, while those with the lowest were John Jay and Lehman. At the community colleges the highest net retention rate was exhibited by Borough of Manhattan, while Queensborough had the lowest rate.

We now consider retention rates in relation to high school average. Table 2 presents the data for level B students (those with high school averages below 70%). For the university as a whole, the net retention rate was 57.6%. The senior college rate (63.3%) was higher than the community college rate (55.4%). Among the senior colleges, retention was greatest at Hunter, City College, and York. It was lowest at Brooklyn College. Among the community colleges, the net retention rate was highest at Manhattan and lowest at Queensborough.

We next consider the findings for students whose high school averages were between 70.0 - 74.9%. The data are presented in Table 3. For this group the net retention rate for the University was 63%. Retention was higher at the senior colleges (68.8%) than at the community colleges (60.1%).

Among the individual senior colleges, retention was greatest at Hunter, City College and York. It was lowest at Lehman. Borough of Manhattan was the community college with the highest net persistence rate, while Queensborough had the lowest rate.

Table 4 presents the data for students with high school averages in the 75.0 - 79.9% interval. Seventy percent of these students enrolled during the fourth semester. Senior college students were more likely to have done so (72.2%) than community college students (66.7%).

Among the senior colleges, students at Brooklyn had the highest net retention rate (79.5%); we estimated that John Jay students had the lowest net retention rate (64.4%). Kingsborough showed the highest net retention

rate among the community colleges (74.8%), while Queensborough exhibited the lowest rate (59.3%).

Table 5 presents the data for students with high school averages of 80% and above. The net retention rate for these students was about 81%. The rate for the senior colleges (81.9%) was considerably higher than the rate for the community colleges (68.3%).

Among the senior colleges, the net retention rate was highest at Brooklyn (87.6%) while the estimated rate for John Jay was 63.2%. For the community colleges, Kingsborough (75.7%) and Manhattan (74%) showed the highest net retention rate, while Queensborough again had the lowest rate.

Table 6 provides the data for the group of students who have either no high school average or for whom this information was missing from our files. For this group the net retention rate for the University as a whole was 60.1 percent. It was higher at the senior colleges than at the community colleges.

Three main points emerge from this data. First, when students who left, returned, and were present in the fourth semester were added to those who were matriculated without interruption, the retention rate is increased. Second, both the retention rate and the net retention rate were higher at the senior colleges than at the community colleges. Third, both rates were positively associated with high school average That is, as high school average increases, the greater is the probability that students who entered the University in the Fall, 1970, would be in attendance for the

fourth semester.

RETURN

An important aspect of retention analyses concerns the proportion of attrited students who return. (An earlier report (2) indicated that about one-third of the 1970 freshmen who left after their first semester of college came back for the third semester.[5]) Of all CUNY students who dropped out at any time during the first three semesters, nearly 18% returned and were in attendance for the fourth semester. The summary data are presented in Table 7. There was very little difference among the community college and senior college return rates.

Return rate data for level B students are presented in Table 8. The University-wide rate was 14.6%; senior colleges and community colleges had almost the same rate. However, there was considerable variation among individual campuses. For the senior colleges, almost one-fourth of the students who left Hunter College returned and were present for the fourth semester. This was true for only about 7% of those from Brooklyn College (i.e., those leaving Hunter were more than three times as likely to return for the fourth semester as the attrited from Brooklyn). Among the community colleges, the return rate at Borough of Manhattan was about 28%, while at Kingsborough and NYCCC, it was about 10%.

Table 9 presents data for students whose high school average was between 70.0 - 74.9%. Overall, about 15% of the attrited students returned for the fourth semester. Community college figures were similar to those for senior colleges.

Hunter College students had the greatest probability of returning, while Brooklyn and Baruch had the lowest fourth semester return rate.

At the community colleges, students who left Borough of Manhattan CC were five times as likely to return as their counterparts at NYCCC.

The figures for attrited students with high school averages in the 75.0 - 79.9% interval are presented in Table 10. About 17% of students in this category returned for the fourth semester. Again, senior and community colleges had similar return rates.

Lehman (23.1%) and York (22.8%) showed the highest return rates, while Baruch (5%) and Brooklyn (8.9%) exhibited the lowest rates. Among community colleges, the return rate for students at Borough of Manhattan CC was 35%. At NYCCC the rate was 11.1%. In short, students leaving BMCC were more than three times as likely to return than those leaving NYCCC.

Table 11 presents the data for students who were graduated from high school with an average of 80% or above. The return rate for these students was about 16%. The difference between senior (15.7%) and community colleges (20.1%) was relatively small.

Among the individual senior colleges, almost 29% of York students who left college returned for the fourth semester. This was true for less than 8% of Baruch students. Among community colleges, the return rate at BMCC was almost 30%; at NYCCC it was 5%.

The data for attrited students without high school averages are shown in Table 12. The overall return rate for this group was about 35%. There was substantial difference between senior and community colleges; at the latter, the return rate was 40%, while at the former it was less than 20%. While we note this difference, we are unable to interpret the finding at this time.

In summary, the return rate for the University as a whole was about 18%. At the senior colleges, high school average was unrelated to the return rate. At the community colleges there was a slight tendency for high school average to be positively associated with return rate.

COMPARISON OF NATIONAL AND CUNY DATA

One of the difficulties concerning the interpretation of CUNY retention data is that no commonly accepted standards exist which define a "high" or a "low" rate. One way of approaching this question is to compare CUNY data with findings at the national level. Thus, a "high" rate could be defined as any figure exceeding the national rate, and a low rate would be any figure less than the national rate.

The most recent national data have been presented by Astin (1). This study followed a national cohort of students who entered college as freshmen in the Fall of 1966. For this group, one year follow-up data were collected in the Fall of 1967, and four year follow-up data were obtained during the Fall and Winter of 1970-71. This second follow-up occurred four years after original enrollment. Thus, the students in this cohort who attended four year colleges, if they were "on schedule", would have been

graduated in June (1970).

Astin does not present retention data for the same time period, four semesters, covered in this report on the cohort that entered in 1970. He provides data describing retention and degree attainment through eight semesters. While the time periods are not the same, it may be useful to compare the two sets of data: such comparisons provide an assessment of the degree to which the CUNY four semester retention data approach the eight semester threshold provided by the national data. (Of course, CUNY is not a "typical" university. Compared with students nationally, its student body has characteristics [lower socioeconomic status, etc.] which are more likely to result in lower retention rates.)

The data are presented in Table 13. The comparisons show that the four semester CUNY net retention rates are considerably higher than the eight semester national rates. The significance of this is that the CUNY cohort can withstand considerably more attrition before it approaches the national eight semester threshold.

SUMMARY

Among the freshmen who entered CUNY in Fall, 1970, about 63 percent were enrolled without interruption in each of their initial four semesters. Approximately 70 percent of them were enrolled in CUNY during Spring, 1972, the fourth semester since their original enrollment. At the senior colleges, more than 75 percent were in attendance during the fourth semester; this was true for 60 percent of the students from the community colleges. At both, high school average (CAA) was positively associated

with retention. (See Table 14)

Among students who left college, about 18 percent returned and were present for the fourth semester. While attrited students from community colleges were more likely to return than those from senior colleges, the differences were quite small.

With regard to net retention rates, there was considerable variation among the colleges of CUNY. There was even more variation in the rates of return of attrited students.

When the CUNY net retention data over four semesters are compared with national data, over eight semesters, it is apparent that considerably more attrition will have to occur before the CUNY net retention rate approaches the threshold defined by the national data.

NOTES

1. Many supporters and opponents of open admissions uncritically accept the idea that attrition is a "negative" outcome of education. In many cases this may be untrue, both from the viewpoint of the student and the University. We believe, for example, that a set of courses, particularly in community colleges, may provide students with skills which allow them to find more desirable jobs. From this vantage point, attendance, even if followed by leave, had a "positive" outcome. In short, we believe that even a truncated exposure to higher education may help improve a person's quality of life.

2. Estimates have been made in the following manner: At John Jay College, the average difference between retention and net retention rates for senior colleges has been added to the retention rate. This generated the net retention rate for John Jay. For Bronx and Hostos the same procedure was followed, except that we have used the average difference for community colleges.

3. Attrited students who return to a CUNY college other than the one at which they originally enrolled were counted as part of the net retention rate for their original college.

4. College Admissions Average (CAA) is computed from grades received in five high school subjects: English, foreign language, mathematics, science, and social studies.

5. Of this group of second semester attrited students, about 32% had returned and were also present for the fourth semester.

REFERENCES

1. Astin, Alexander W., College Dropouts: A National Profile, Washington, D. C.: American Council on Education, 1972.

2. Lavin, David E., and Barbara Jacobson, Open Admissions at The City University of New York: A Description of Academic Outcomes After Three Semesters, New York: City University of New York, 1973.

3. Max, Pearl, How Many Graduate, New York: City University of New York, 1958.

4. Office of University Management Data, Attrition Experience of Entering Day Session Matriculated Fall 1970 Freshman Class After One and One Half Years,

TABLE 1

Retention and Net Retention Rates by College
Fall 1970 Freshman Class

College	Total Matriculants	Total Present All Four Semesters	Retention Rate	Total Present In Fourth Semester	Net Retention Rate
Baruch	1355	927	68.4%	968	71.4%
Brooklyn	4319	3408	78.9	3527	81.7
City College	2931	2103	71.8	2212	75.5
Hunter	3075	2148	69.9	2329	75.7
John Jay	1022	581	56.8	639*	62.5*
Lehman	2337	1475	63.1	1656	70.9
Queens	3400	2566	75.5	2702	79.5
York	840	558	66.4	621	73.9
SENIOR COLLEGE TOTALS	19,279	13,766	71.4	14,654	76.0
Manhattan	1559	748	48.0	1049	67.3
Bronx	1827	1032	56.5	1164*	63.7*
Hostos	573	289	50.4	330*	57.6*
Kingsborough	2492	1337	53.7	1542	61.9
NYCCC	2251	1280	56.9	1360	60.4
Queensboro	3266	1533	46.9	1808	55.4
Staten Island	2165	1041	48.1	1304	60.2
COMMUNITY COLLEGE TOTALS	14,133	7260	51.4	8557	60.5
CUNY TOTALS	33,412	21,026	62.9%	23,211	69.5

*Estimated

TABLE 2

Retention and Net Retention Rates for Level B Students by College

Fall 1970 Freshman Class

College	Total Matriculants	Total Present All Four Sem.	Retention Rate	Total Present In Fourth Sem.	Net Retention Rate
Baruch	166	89	53.6%	103	62.0%
Brooklyn	240	123	51.3	131	54.6
City College	287	186	64.8	202	70.4
Hunter	162	105	64.8	119	73.5
John Jay	421	224	53.2	253*	60.1*
Lehman	191	102	53.4	118	61.8
Queens	133	69	51.9	82	61.7
York	108	66	61.1	74	68.5
SENIOR COLLEGE TOTALS	1708	964	56.4	1032	63.3
Manhattan	416	206	49.5	265	63.7
Bronx	723	388	53.7	442*	61.1*
Hostos	259	118	45.6	137*	53.0*
Kingsborough	895	456	50.9	499	55.8
NYCCC	708	370	52.3	403	56.9
Queensboro	876	345	39.4	421	48.0
Staten Island	466	202	43.3	240	51.5
COMMUNITY COLLEGE TOTALS	4343	2085	48.0	2407	55.4
CUNY TOTALS	6051	3049	50.4	3489	57.6

*Estimate

TABLE 3

Retention and Net Retention Rates for Level A.1 (Senior Colleges) and Level A (Community Colleges) Students by College (Fall 1970 Freshman Class)

College	Total Matriculants	Total Present All Four Sem.	Retention Rate	Total Present In Fourth Sem.	Net Retention Rate
Baruch	261	166	63.6%	177	67.8%
Brooklyn	361	227	62.9	241	66.8
City College	424	281	66.3	302	71.2
Hunter	379	243	64.1	279	73.6
John Jay	--*	--	--	--	--
Lehman	361	197	54.6	228	63.2
Queens	133	77	57.9	89	66.9
York	201	127	63.2	143	71.1
SENIOR COLLEGE TOTALS	2120	1318	62.2	1459	68.8
Manhattan	390	197	50.5	250	64.1
Bronx	599	338	56.4	379**	63.3**
Hostos	194	98	50.5	111**	57.2**
Kingsborough	749	451	60.2	474	63.3
NYCCC	634	352	55.5	367	57.9
Queensboro	1053	515	48.9	601	57.1
Staten Island	625	306	49.0	367	58.7
COMMUNITY COLLEGE TOTALS	4244	2257	53.2	2549	60.1
CUNY TOTALS	6364	3575	56.2%	4008	63.0%

*Data not available

**Estimate

TABLE 4

Retention and Net Retention Rates for Level A.2 (Senior Colleges) and Regular 1 (Community Colleges) Students by College (Fall 1970 Freshman Class)

College	Total Matriculants	Total Present All Four Sem.	Retention Rate	Total Present In Fourth Sem.	Net Retention Rate
Baruch	495	335	67.7%	343	69.3%
Brooklyn	650	504	77.5	517	79.5
City College	701	473	67.5	503	71.8
Hunter	666	455	68.3	495	74.3
John Jay	514	305	59.3	331*	64.4*
Lehman	794	478	60.2	551	69.4
Queens	492	337	68.5	360	73.2
York	372	258	69.4	284	76.3
SENIOR COLLEGE TOTALS	4684	3145	67.1	3384	72.2
Manhattan	323	166	51.4	222	68.7
Bronx	505	306	60.6	343**	68.0**
Hostos	120	73	60.8	82**	68.3**
Kingsborough	397	274	69.0	297	74.8
NYCCC	450	297	66.0	314	69.8
Queensboro	816	432	52.9	484	59.3
Staten Island	465	278	59.8	310	66.7
COMMUNITY COLLEGE TOTALS	3076	1826	59.4	2052	66.7
CUNY TOTALS	7760	4971	64.0%	5436	70.0%

*Estimated--Includes all Level A Students (A.1 + A.2)

**Estimated--Includes all Regular Students (Regular 1 + Regular 2)

TABLE 5

Retention and Net Retention Rates for Regular (Senior Colleges) and Regular 2 (Community Colleges) Students by College (Fall 1970 Freshman Class)

College	Total Matriculants	Total Present All Four Sem.	Retention Rate	Total Present In Fourth Sem.	Net Retention Rate
Baruch	423	332	78.5%	339	80.1%
Brooklyn	2847	2421	85.0	2493	87.6
City College	1490	1147	77.0	1188	79.7
Hunter	1765	1281	72.6	1363	77.2
John Jay	87	52	59.8	55*	63.2*
Lehman	896	661	73.8	704	78.6
Queens	2577	2043	79.3	2127	82.5
York	119	81	68.1	92	77.3
SENIOR COLLEGE TOTALS	10,204	8018	78.6	8361	81.9
Manhattan	154	97	63.0	114	74.0
Bronx	--**	--	--	--	--
Hostos	--**	--	--	--	--
Kingsborough	115	80	69.6	87	75.7
NYCCC	244	163	66.8	167	68.4
Queensboro	333	171	51.4	201	60.4
Staten Island	308	185	60.1	219	71.1
COMMUNITY COLLEGE TOTALS	1154	695	60.3	788	68.3
CUNY TOTALS	11,358	8714	76.7%	9149	80.6%

*Estimated

**Data not available

TABLE 6

Retention and Net Retention Rates for Students with No High School Average by College
Fall 1970 Freshman Class

College	Total Matriculants	Total Present All Four Sem.	Retention Rate	Total Present In Fourth Sem.	Net Retention Rate
Baruch	10	5	50.0%	6	60.0%
Brooklyn	221	133	60.2	145	65.6
City College	29	16	55.2	17	58.6
Hunter	103	64	62.1	73	70.9
John Jay	--*	--	--	--	--
Lehman	95	37	38.9	55	57.9
Queens	65	40	61.5	44	67.7
York	40	26	65.0	28	70.0
SENIOR COLLEGE TOTALS	563	321	57.0	368	65.4
Manhattan	276	82	29.7	198	71.7
Bronx	--*	--	--	--	--
Hostos	--*	--	--	--	--
Kingsborough	336	76	22.6	185	55.1
NYCCC	215	98	45.6	109	50.7
Queensboro	188	70	37.2	101	53.7
Staten Island	301	70	23.3	168	55.8
COMMUNITY COLLEGE TOTALS	1316	396	30.1	761	57.8
CUNY TOTALS	1879	717	38.1%	1129	60.1%

*Data unavailable.

TABLE 7
Fourth Semester Return Rates by College
Fall 1970 Freshman Class

COLLEGE	Attrited Students	Total Returns Present 4th Semester	4th Semester Return Rate
Baruch	428	41	9.6%
Brooklyn	911	119	13.1
City College	828	109	13.2
Hunter	927	181	19.5
John Jay	441	58*	13.2*
Lehman	862	181	21.0
Queens	834	136	16.3
York	282	63	22.3
SENIOR COLLEGE TOTALS	5513	888	16.1
Manhattan	811	301	37.1
Bronx	795	132*	16.6*
Hostos	284	41*	14.4*
Kingsborough	1155	205	17.7
NYCCC	971	80	8.2
Queensboro	1733	275	15.9
Staten Island	1124	263	23.4
COMMUNITY COLLEGE TOTALS	6873	1297	18.9
CUNY TOTALS	12,386	2185	17.6%

*Estimated

TABLE 8

Fourth Semester Return Rates by College for Level B Students
Fall 1970 Freshman Class

COLLEGE	Matriculated Students	Total Returns Present 4th Semester	4th Semester Return Rate
Baruch	77	14	18.2%
Brooklyn	117	8	6.8
City College	101	16	15.8
Hunter	57	14	24.6
John Jay	197	29*	14.7*
Lehman	89	16	18.0
Queens	64	13	20.3
York	42	8	19.0
SENIOR COLLEGE TOTALS	744	118	15.9
Manhattan	210	59	28.1
Bronx	335	54*	16.1*
Hostos	141	19*	13.5*
Kingsborough	439	43	9.8
NYCCC	338	33	9.8
Queensboro	531	76	14.3
Staten Island	264	38	14.4
COMMUNITY COLLEGE TOTALS	2258	322	14.3
CUNY TOTALS	3002	440	14.6 %

*Estimate

TABLE 9

Fourth Semester Return Rates by College for Level A.1 (Senior Colleges) and Level A (Community Colleges) Students
Fall 1970 Freshman Class

COLLEGE	Attrited Students	Total Returns Present 4th Semester	4th Semester Return Rate
Baruch	95	11	11.6%
Brooklyn	134	14	10.4
City College	143	21	14.7
Hunter	136	36	26.5
John Jay	-*	-	-
Lehman	164	31	18.9
Queens	56	12	21.4
York	74	16	21.6
SENIOR COLLEGE TOTALS	802	141	17.6
Manhattan	193	53	27.5
Bronx	261	41**	15.7**
Hostos	96	13**	13.5**
Kingsborough	298	23	7.7
NYCCC	282	15	5.3
Queensboro	538	86	16.0
Staten Island	319	61	19.1
COMMUNITY COLLEGE TOTALS	1987	292	14.7
CUNY TOTALS	2789	433	15.5 %

* Data Unavailable
** Estimated

TABLE 10

Fourth Semester Return Rates by College for Level A.2 (Senior Colleges) and Regular 1 (Community Colleges) Students
Fall 1970 Freshman Class

COLLEGE	Attrited Students	Total Returns Present 4th Semester	4th Semester Return Rate
Baruch	160	8	5.0%
Brooklyn	146	13	8.9
City College	228	30	13.2
Hunter	211	40	18.9
John Jay	209	26*	12.4*
Lehman	316	73	23.1
Queens	155	23	14.8
York	114	26	22.8
SENIOR COLLEGE TOTALS	1539	239	15.5
Manhattan	157	56	35.7
Bronx	199	37**	18.6**
Hostos	47	9**	19.1**
Kingsborough	123	23	18.7
NYCCC	153	17	11.1
Queensboro	384	52	13.5
Staten Island	187	32	17.1
COMMUNITY COLLEGE TOTALS	1250	226	18.1
CUNY TOTALS	2789	465	16.7%

* Estimated - Includes all level A students (A.1 + A.2)
** Estimated - Includes all regular students (Regular 1 + Regular 2)

TABLE 11

Fourth Semester Return Rates by College for Regular (Senior Colleges) and Regular 2 (Community Colleges) Students
Fall 1970 Freshman Class

COLLEGE	Attrited Students	Total Returns Present 4th Semester	4th Semester Return Rate
Baruch	91	7	7.7%
Brooklyn	426	72	16.9
City College	343	41	11.9
Hunter	484	82	16.9
John Jay	35	3*	8.6*
Lehman	235	43	18.3
Queens	534	84	15.7
York	38	11	28.9
SENIOR COLLEGE TOTALS	2186	343	15.7
Manhattan	57	17	29.8
Bronx	-**	-	-
Hostos	-**	-	-
Kingsborough	35	7	20.0
NYCCC	81	4	4.9
Queensboro	162	30	18.5
Staten Island	123	34	27.6
COMMUNITY COLLEGE TOTALS	458	92	20.1
CUNY TOTALS	2644	435	16.5 %

* Estimated
** Data Unavailable

TABLE 12

Fourth Semester Return Rates by College for Students with No High School Average
Fall 1970 Freshman Class

COLLEGE	Attrited Students	Total Returns Present 4th Semester	4th Semester Return Rate
Baruch	5	1	20.0%
Brooklyn	88	12	13.6
City College	13	1	7.7
Hunter	39	9	23.1
John Jay	-*	-	-
Lehman	58	18	31.0
Queens	25	4	16.0
York	14	2	14.3
SENIOR COLLEGE TOTALS	242	47	19.4
Manhattan	194	116	59.8
Bronx	-*	-	-
Hostos	-*	-	-
Kingsborough	260	109	41.9
NYCCC	117	11	9.4
Queensboro	118	31	26.3
Staten Island	231	98	42.4
COMMUNITY COLLEGE TOTALS	920	365	39.7
CUNY TOTALS	1162	412	35.5%

* Data Unavailable

TABLE 13

Relation of High School Average and Retention in College: Comparison of National and CUNY Data
Fall 1970 Freshman Class

High School Average	2 Year Colleges		4 Year Colleges	
	National*	CUNY**	National*	CUNY**
80+	46	68	63	82
75-79	41	67	48	72
70-74	31	60	38	69
Less than 70	29	55	38	63

* Retention rates for 8 semesters
** Retention rates for 4 semesters

TABLE 14

Net Retention Rates for Senior and Community Colleges by High School Average
Fall 1970 Freshman Class Through Four Semesters

High School Average (CAA)	Senior Colleges	Community Colleges	Total CUNY
80+	81.9%	68.3%	80.6%
75-79	72.2	66.7	70.0
70-74	68.8	60.1	63.0
Less than 70	63.3	55.4	57.6
TOTAL	76.0% (19,279)	60.5% (14,133)	69.5% (33,412)